Electric Fence Energizer

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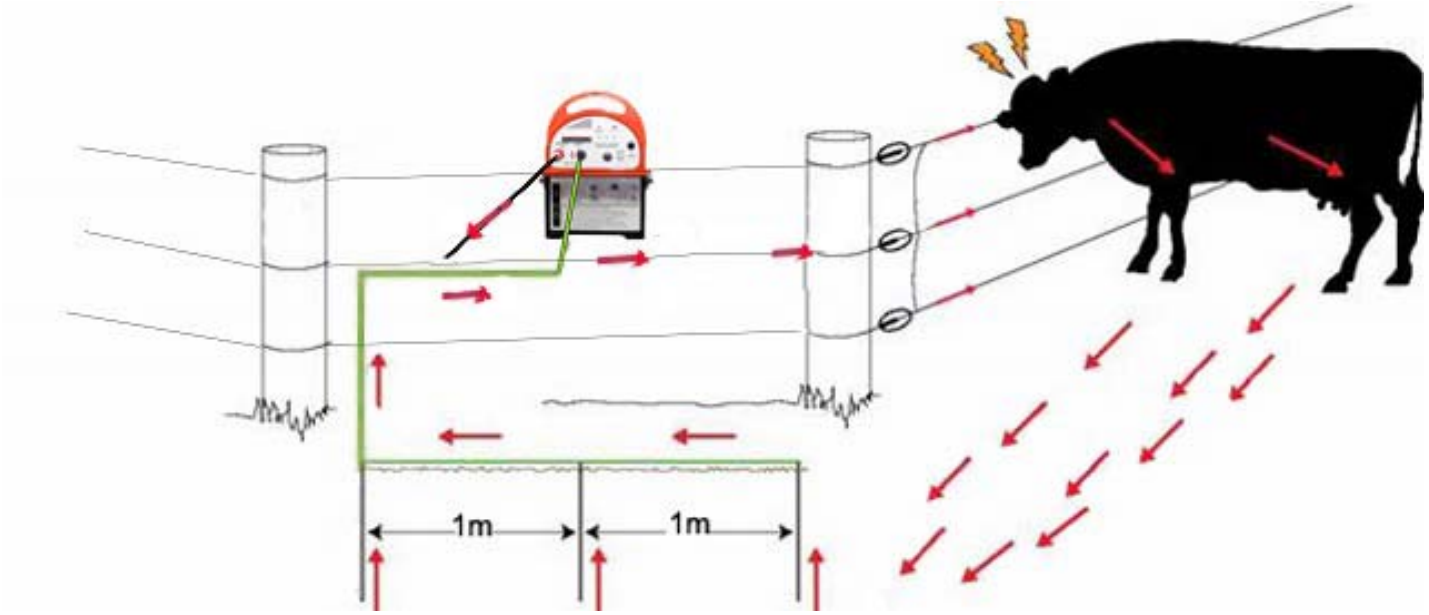
Electric fence facts

- Electric fence is a psychological barrier that keeps animals in and wild animals and predators out. A pulse of electric current is sent along the fence wire, about one pulse per second, from an energizer which is grounded. When the animal touches the fence, it completes the circuit between the fence and the ground and receives a short, sharp but safe shock. The shock is sufficiently memorable that the animal never forgets.
- Because it is a psychological barrier, it does not require great physical strength. However, it must be well designed and constructed to absorb some pressure from animals, snow and wind. The energizer must have enough power for the length of the fence and for the animals being controlled.
- For complete information on building an electric fence system, request the free Aria Power Fence Systems manual at www.aria-get.com www.aria-china.com

Advantages of Electric Fence

- Expensive to build and maintain than barbed wire, according to the 2005 study by Iowa State University on estimated costs for livestock fencing.
- Easy DIY installation. Detailed instruction manual.
- Low maintenance
- Portable, small size, light weight and with comfortable carrying handle.
- Low power needed. Idea for remote area where without power
- Durable – due to low physical contact
- Easily modified or expanded
- Keeps animals in and predators out



Battery Fence Energizer

Battery Box

Take out the battery box from power supply part,

and install eight batteries into it.

Don’t reverse the positive(+)and negative(-) of battery.

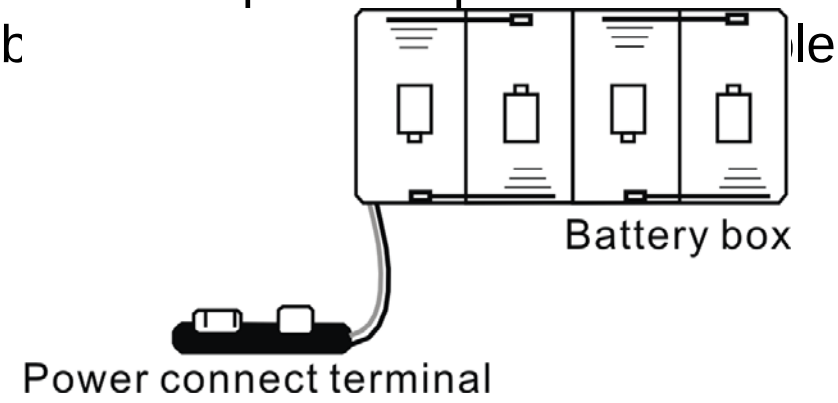
- A battery energizer makes your electric fencing system very mobile, convenient. When you need set fence system in a remote area where no main power to charge the fence. It is idea for small fence or temporary fencing. These energizers are light weight and easy to relocate, require no maintenance and generally the batteries last 1-6 months before replacements are needed. These batteries are not rechargeable.(12 Rechargeable battery also compatible)

  The battery energizers can be matched with solar panels to create a solar assist system. This system prolongs the battery life by trickle feeding the battery.

Battery safety instructions

This energizer needs 8 dry batteries to run.

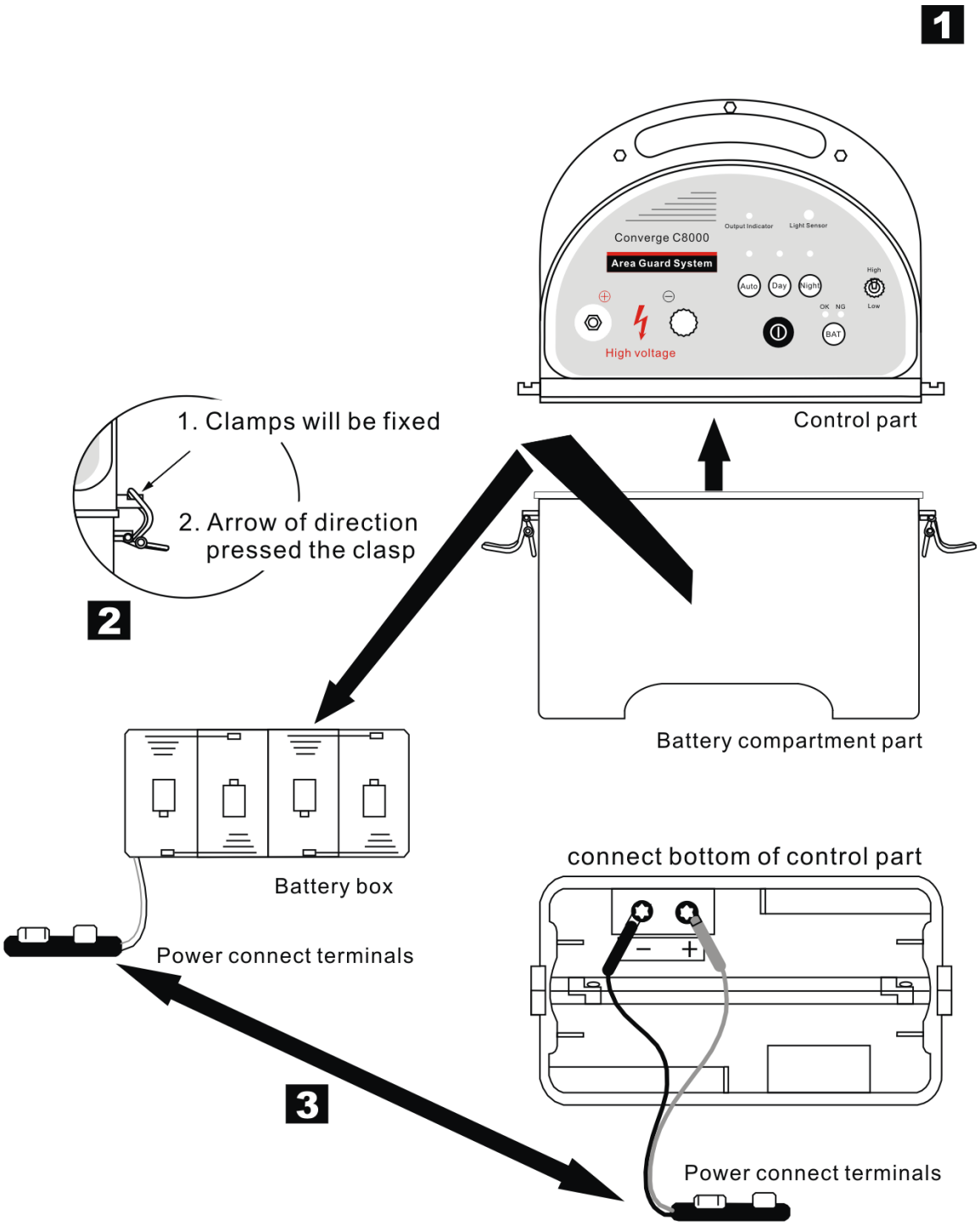
- The energizer power supply is DC 12V.
- Dry battery can not be recharged.
- Do not reverse the positive (+) and negative (-) pole of battery. Otherwise may cause operation failure.
- Take out the batteries when this energizer will not be used for a long time, otherwise the battery leakage may cause failure.
- Do not use old and new batteries at the same time, otherwise may cause battery leakage. Please use new batteries.
- Do not use rechargeable and dry batteries at the same time, otherwise may shorten the lifetime of the energizer and cause leakage and breakage. Please use the same brand dry batteries.
- Don not place batteries in exposed, high temperature, and humid places. Please keep them at normal temperature places.
- Please take the battery which b le waste disposal.



Batteries connecting

- Batteries connecting
- 1 Dismantle this metal fixable clamps to separate the power supply part.
- 2 Take out the battery box from power supply part, and install eight batteries into it. Don’t reverse the positive (+) and negative (-) of battery.
- 3 The connect port joins the control panel and the power supply part.
- 4 Put the battery box back power supply part, and fasten metal clamps to connect with the control panel.

Batteries connecting

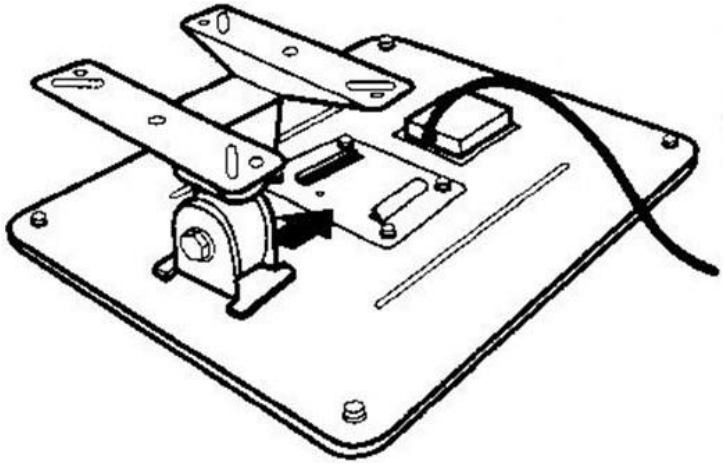


Solar Fence Energizer

OUTPUT INDICATION
light Sensor
AREA GUARD SYSTEM
OUTPUT
EARTH
AUTO
DAY
NIGHT
HIGH
LOW
OK
NG
BAT
ADJUST OUTPUT
HIGH-VOLTAGE
The use and installation safety instructions
WARNING
CAUTION
Please place the guard in a cool ventilated place, Where has no direct sunshine.
This guard is only used to prevent wildlife, any other aim is not being allowed.
Please bury the three earth wires into underground. (Don't mistakenly cut off the wires when mowing)
Cut weeds around the protective wires at intervals, in order to prevent them from touching protective wires
Do not let the equipment be soaked by water or rain, otherwise it may cause accident and operation failure.
Check the batteries at regular intervals. Please replace the batteries when the NG light glimmer.
Take out the batteries when this guard is not used, otherwise may cause leakage.
Don't disassemble and change this guard, otherwise can cause serious accident and operation failure.
When there is thunder or lightning, please stay far away from the fence or take down the equipment.
This guard is only used to prevent wild animals from damaging crop. We are not to undertake responsibility for any injury and accident, which is caused by using this guard.

Solar Panel

Rechargeable battery can be used



Why Solar Energizer?

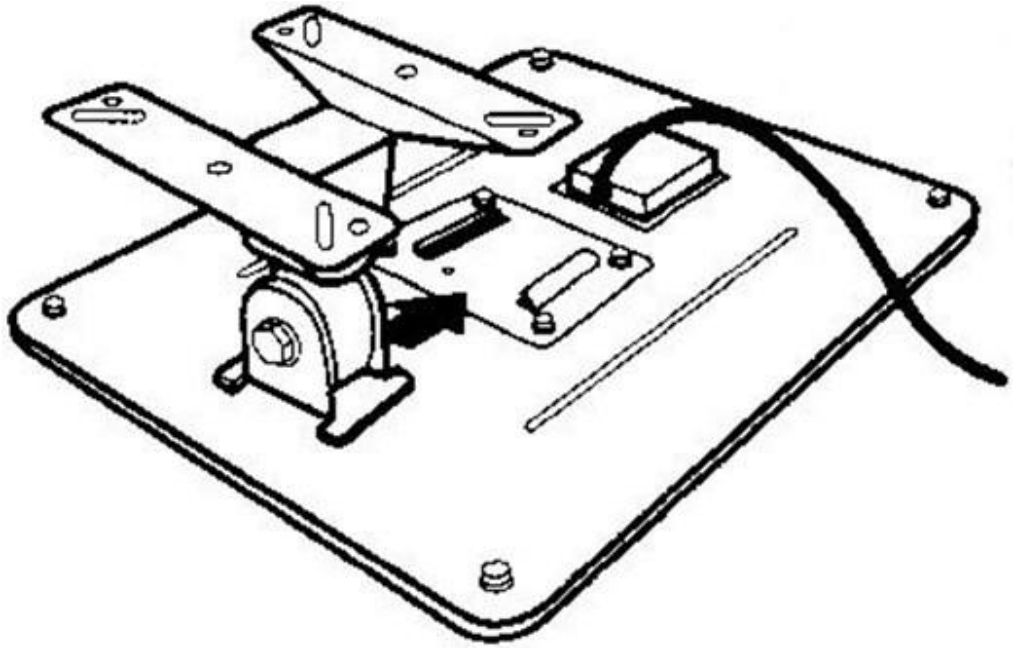
- One of the problems with electric fencing is that it is often used far from a mains power source or in a remote area. Therefore relies on heavy 12V batteries. A typical electric fence battery will last 2-6 weeks. When the battery is discharged or used up, it needs to be carried to a mains power supply to be recharged or be replaced, which is not only inconvenient but leaves the fence inoperative.

- To overcome this, many people are now choosing to use a solar panel to 'trickle charge' the electric fence battery, so that it never (or rarely) needs to be charged using a mains charger or place new batteries. Essentially, solar panels can be used to power any size of fence energizer. To use a solar energizer, you can also place a rechargeable battery inside, the solar panel will priory supply power for the fence system, and also will charge the battery to support the electric fence when there is no sunshine.

Solar Panel Installation Method

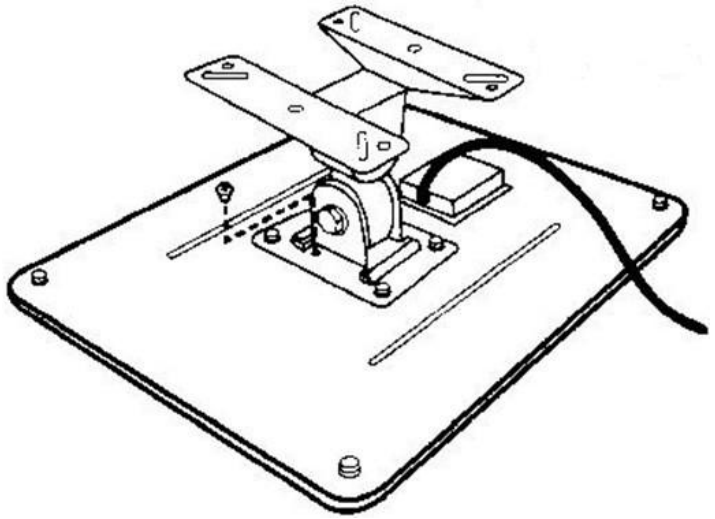
Frame mount installation method.

1. Turn over solar panel and set frame mount according to the direction of arrow.



※For direction is limited. Please pay attention.

2. Please fix it with screw and don’t remove it according to the picture.



Demonstration of installation method of solar panel.

Please set solar panel on which is wide and face to the sun. (Don’t set it in open air, and prevent it from rainwater.)

1. Please fasten frame mount on solid pillar or panel with screws.

2. Please fasten solar panel on frame mount.

Safety instructions of the installation of solar panel.

1.It has to face to the south and has sunlight more than six hours everyday.

2.It will cause low voltage of storage battery without enough sunlight. Please pay attention to it.

(Please keep in mind these instructions.)

Safety instructions of using solar panel

- In general, it does not need maintenance. Please use your eyes directly while examining it.
- Please don’t exert a great strength on the panel.
- Please don’t use pirate solar panel.

Storage battery

- Please use the recommended storage battery for solar energy.(Storage battery:valve regulated lead-acid battery, Nominal voltage:12V, Nominal capacity:7.2Ah]
- Please don’t make it short-circuit or disassemble it, otherwise it will cause damage.

Storage method and instructions of storage battery when it is non-use

- Remove the wires that connect the storage battery
- Please store battery in cool place after finishing charging.

Instructions for using after long keeping

- Please charge battery before use.
- Connect the battery to the battery wire and the solar lead wire.

Connection Method

The use of solar panel and connection method of wires.(KMS-01)

1. Please remove the battery lid of power source.
2. Unfasten the wires, which connect positive and negative electrode, on the bottom of controlling zone. Then connect solar panel wires with electrode through the hole in the bottom of power source, red to the positive, black to the negative.

■Recommended battery

·Storage battery:valve regulated lead-acid battery, Nominal voltage:12V, Nominal capacity:7.2Ah

Solar Panel Specification

Model	KMS-01
Max Output	8W
Max Current	0.519A
Max Voltage	15.4V
Size	(about)240(width)×320(height)mm
Weight	(about)2Kg
Wire Length	(about)1650mm the distance between solar panel and energizer
Accessory	Fixable frame×1

(※ Accessories don’t include screws)

Solar Panel Guarantee

During warranty period ,please operate correctly according to the instructions. If proper operation caused failure, please bring your energizer and guarantee to where you bought it. And they will repair it for you.

Product	Animal Earth Solar Panel	Date	Guarantee
Model	KMS-01		1 Year
Client	Address		
	Name		
	Tel No.		
Agency	Address		
	Name		
	Tel No.		

Energizer Accessories

- The main part of Solar Fence Energizer, To fence power supply. (The color is according to the
- customer’s demand)

Energizer Accessories

High Tension Line

To connect the output port of the energizer to fence wire

Metal Pothook

A metal buckle to fix the energizer on a wooden post

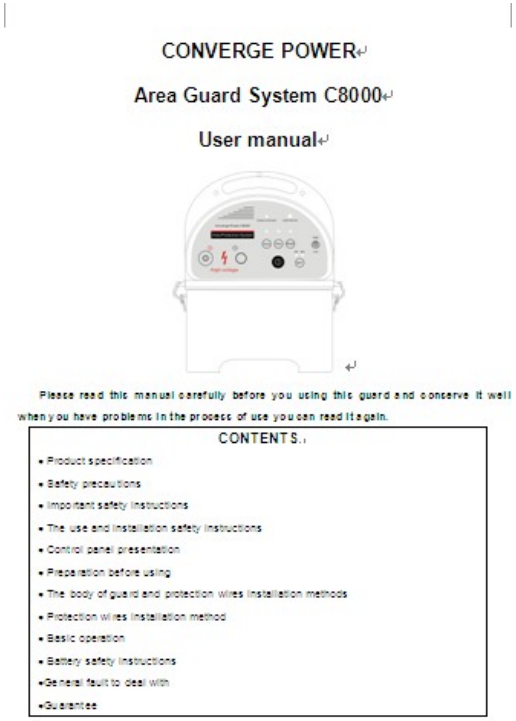
Earth Wire

Embed the 3 earth electrode into underground totally (depth over 10cm)

Battery Jar

A box to place the dry battery (1.5V*8,not included)

Energizer Accessories


CONVERGE POWER

Area Guard System C8000

User manual

Please read this manual carefully before you using this guard and conserve it well when you have problems in the process of use you can read it again.

CONTENTS.

- Product specification
- Safety precautions
- Important safety instructions
- The use and installation safety instructions
- Control panel presentation
- Preparation before using
- The body of guard and protection wires installation methods
- Protection wires installation method
- Basic operation
- Battery safety instructions
- General fault to deal with
- Guarantee

- User Manual: Please read this manual carefully before you using this energizer and conserve it well when you have problems in the process of use you can read it again

Related Fence Accessories

- In addition to host standard accessories, want to have a complete protection system also need other
- accessories. But these accessories are not include in the Aria Energizer’s standard accessories. If you
- need these accessories from us, Please let us know in advance. So that we can give you to do relevant
- arrangement

Related Fence Accessories list

Fence Post

To fixed fence wire

Length optional

Insulator

Isolate the electric fencing wire from posts and help maintain good line

Solar Panel

Rechargeable battery can be used

Hook Gate &Spring

The hook with the tension spring are to maintain good wire tension of fence gate Designed to latch easily onto a gate anchor

Poly Wire

To conduct electricity around your enclosure

Material: Polyethylene&Stainless Steel

Highly conductive, Rust-free and Perdurable

Energizer Specification

Energizers for Battery Energizers and Solar Energizers are the same, you can choose to be powered by battery or solar panel.

Model	C8000
Power（DC）	12V dry battery（1.5V*8）(not included)
Input power	DC12V
Output voltage	DC8000-DC4000V
Output cycle	1.1-1.2 seconds
Effective distance of protective wire	About 3000m ＊Not the length of electric fence.
Output indicator light	When DC voltage is above 2000V then light up
Battery indicator light	Above DC7V green indicator light up. Less than DC7V red indicator light up.
Dry battery（lifetime）	Low Voltage：about 30-40 days (12 hours per day). The lifetime changes according to the use condition.
Product Size	（About）Width 210×Length 160×Height 290mm（Not include the metal fixable clamps）
weight (exclude battery)	（About）2kg
Accessories	Warning Board×3, Earth Wire×1, High-voltage Wire×1, Pothook of the guard×1, Battery Box×1, Detector×1

Safety Precautions

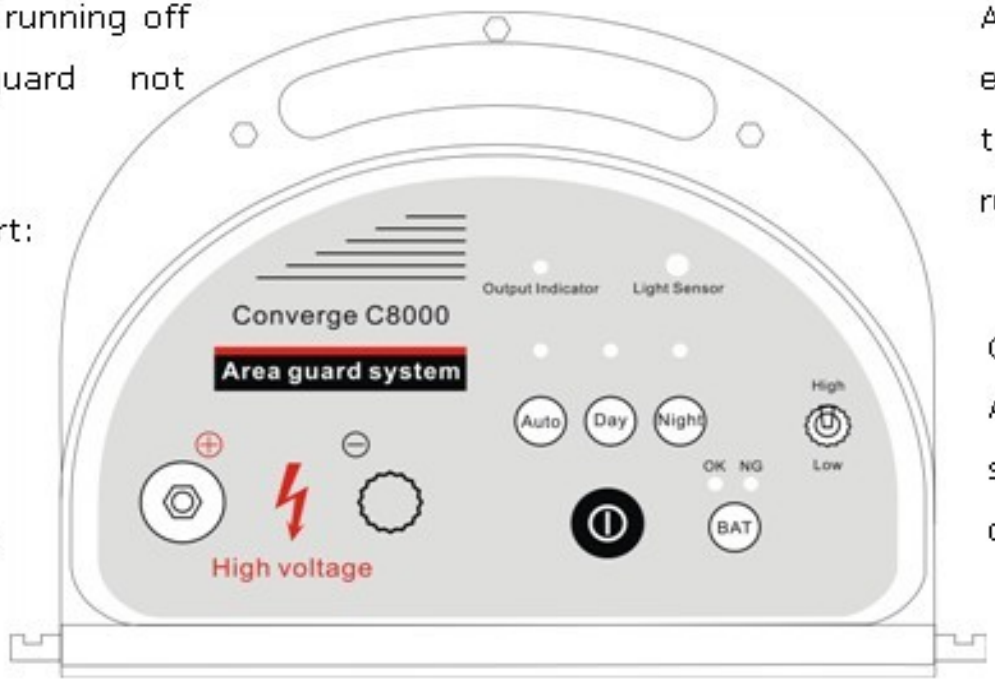
Meaning of warning and caution

	WARNING	May cause damage to user and goods if operation is not correct.
	WARNING	May cause damage to user and goods if operation is incorrect. (Goods referring to housing, property, livestock, pet and so on).

Control Panel Presentation

Working Indicator Light on when this guard running off when this guard not

Output Port: Connect appendant high voltage wires, electrify the protective wires.



Light Sensor: According perceive environmental ray to control the running mode.

Output Switch: Adjust the strength of the output voltage.

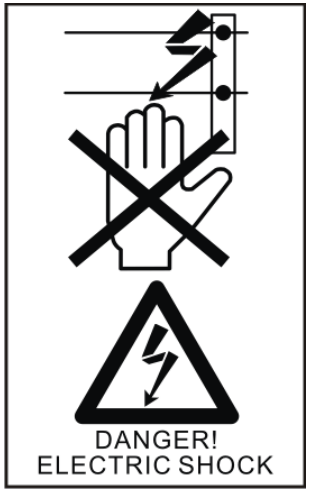
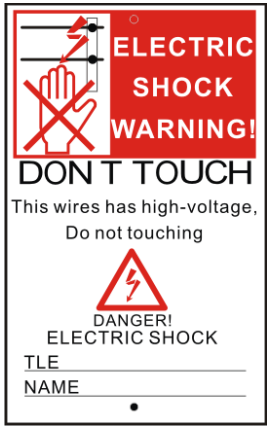
Earth Wire Port: earth conductor

Power Switch: Turn power on/off of the

Running Mode: Night: Only work at night Daytime: Only working by day. Auto: Working day and night.

BAT Button: of testing battery: When the battery power will be used up this light turn red or else is green.

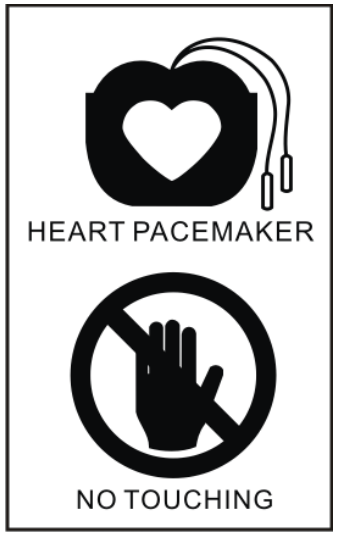
Important Safety Instructions

WARNING Please wear the insulation hat, rubber gloves, rubber boot, long-sleeved shirt and trousers. Please do not wear adornments such as necklaces.		WARNING Please don't install this energizer in flammable and explosive area. Special notice: This energizer can't be placed where has flammable liquid gas.	
WARNING When this guard is working, touching protective wire may cause hazard by high voltage. Can not do any physical contact.		WARNING Set warning boards around the electric fence. More warning boards are needed if the electric fence extend.	

WARNING

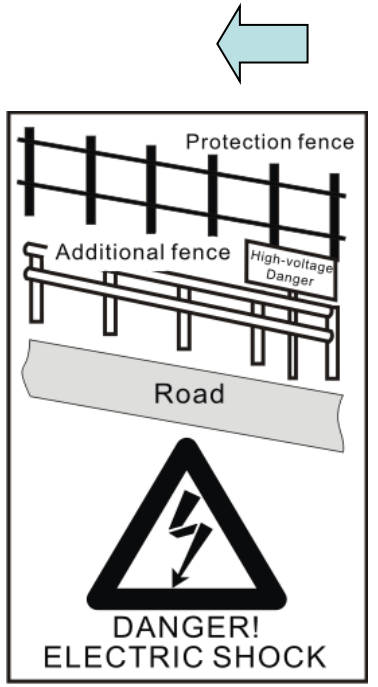
It may affect the normal operation of medical devices, such as cardiac pacemaker.

Please do not let heart disease patients close to the electric fence and operate this energizer.



WARNING

If set electric fence in locations such as footway , please set a additional fence around the electric fence , and set up warning boards in 20m on the electric fence.



WARNING

Please keep away from the electric fence when there might have thunder and lightning.

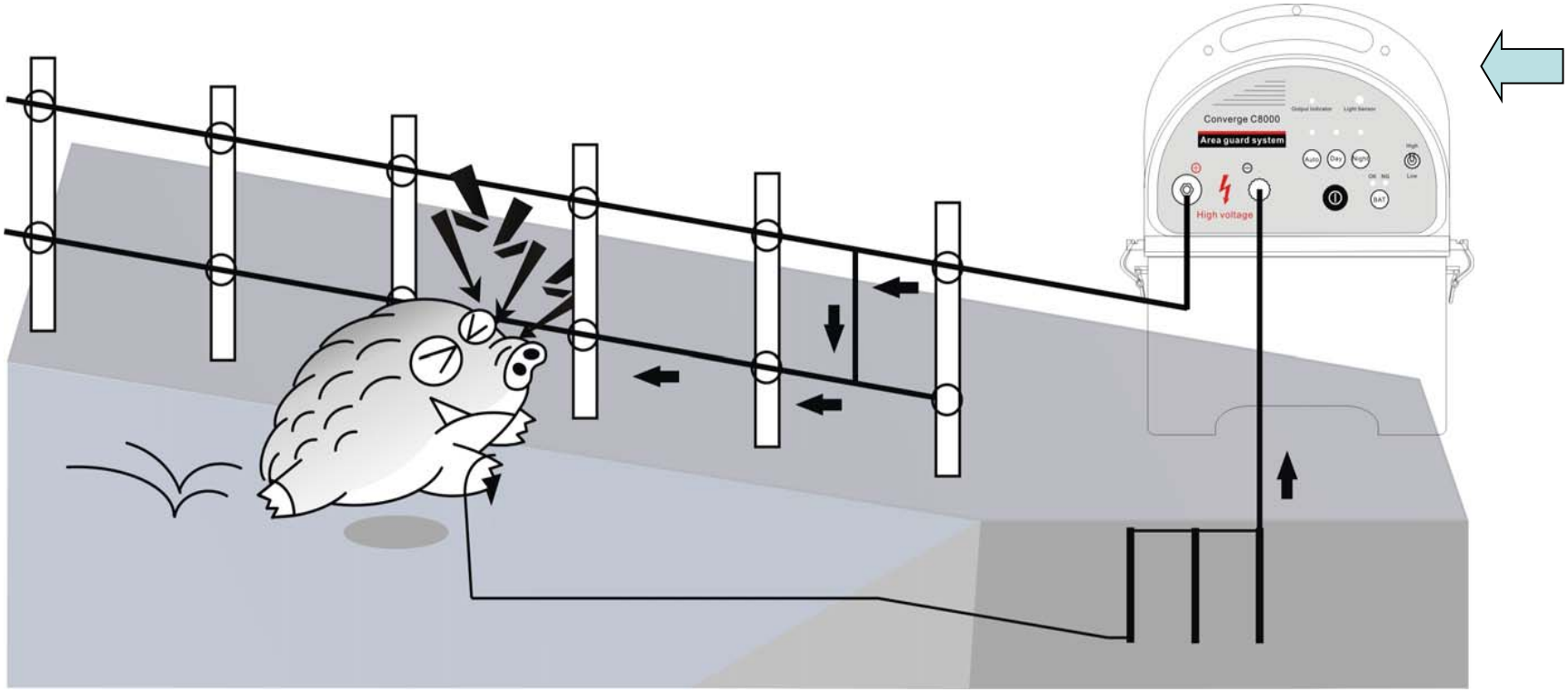
WARNING

Don’t disassemble and change this energizer, otherwise can get a electric shock

The use and installation safety instructions

- Do not let this energizer be drenched by water.
- Please don't place this energizer directly under sunshine.
- This energizer is used to prevent wildlife, any other use is not being allowed.
- Please bury the three basic wires of this energizer underground.
  (Don't mistakenly cut down the protective wire when you are mowing.)
- Cut weeds around protective wires at intervals, in order to prevent them from touching protective wires.
- This energizer may turn into night mode, which is the original state, when touched by grass or other objects.

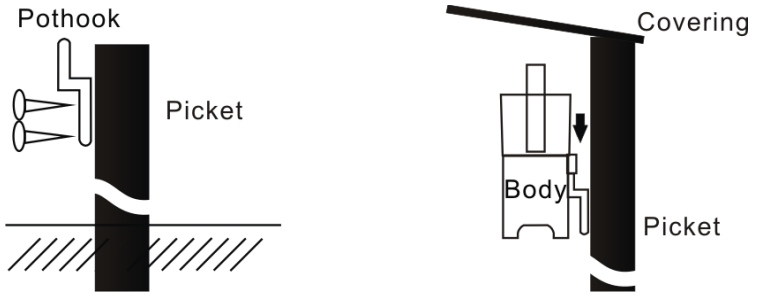
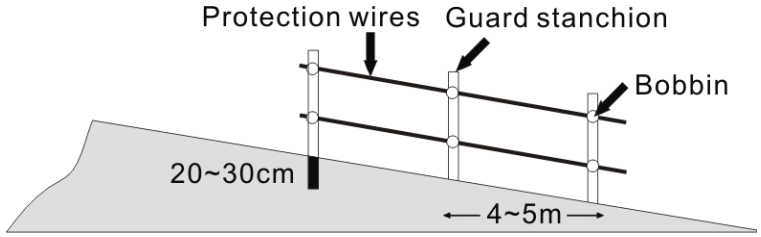
- Touch protective wires with power may cause an electric shock.
- Please place warning boards around the electric fence and in front of protective wires.
- Place the energizer well before spraying pesticide, otherwise can cause failure.
- Check the batteries at intervals. Please replace the batteries When the NG light glimmers.
- Take out the batteries when this energizer is not used, otherwise can cause leakage.
- Don't disassemble and change this energizer, otherwise can cause accident and failure.
- Not to undertake responsibility for any injury and accidents, which is caused by using this energizer.

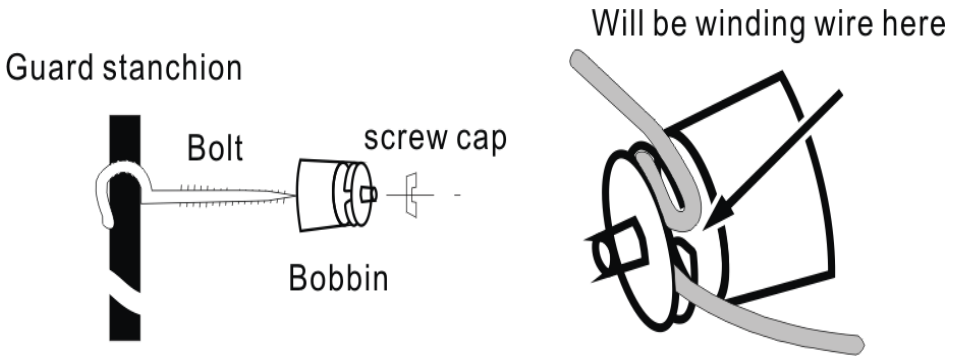
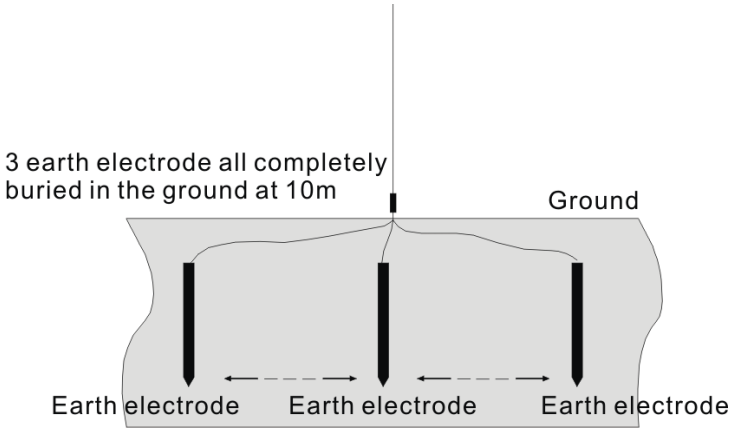


In order to make a effective use of this guard, please bury the earth wires into underground in a correct way. Please cut weeds around the protective wires at intervals, in order to keep them from touching the protective wires, avoid electricity leakage, and insure the unimpeded high-voltage current of the protective wires.

So please inspect the mainframe, batteries, and protective wires once a day.

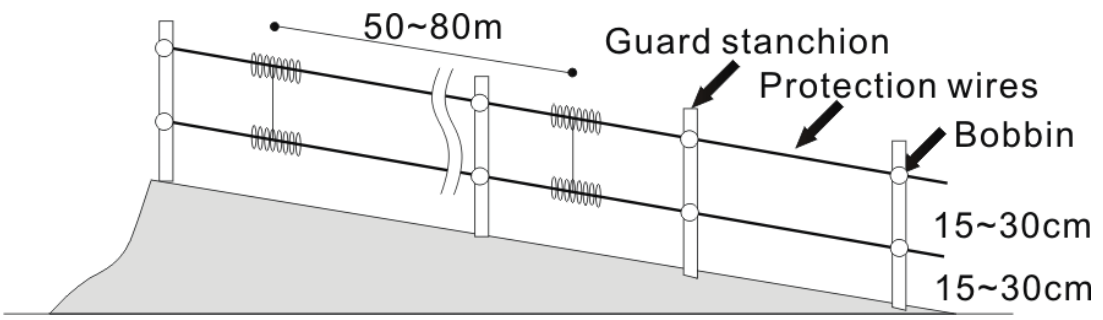
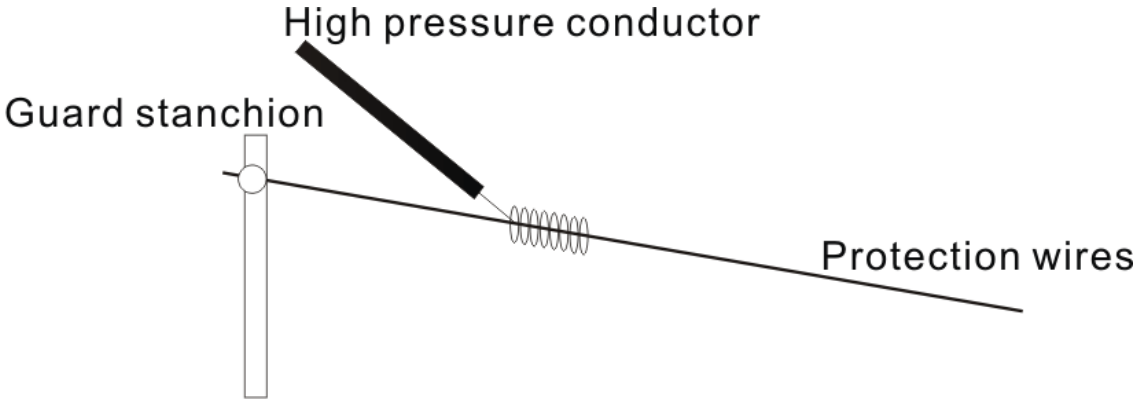
The body of energizer and protection wires installation methods

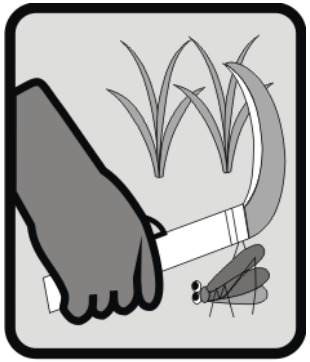
The energizer installation: Please install this energizer in a high position that can't be touched by grass or trees. 1. Fixed a metal pothook on a firm wooden picket, and fixed notches of the body back on the metal shelf. 2. Set a covering on mainframe part to prevent rainwater, wind and sunlight.	
The installation of fence posts: keep the pillars of the fence underground 20-30cm and fixed well. Please keep a distance between the posts of 4-5 meters, in gradient ground requests to shorten the distance between the pillars properly.	

Insulator (fixed protective wire) and protective wire installation: 1. Fixed insulator on this electric fence 2. Twine protective wire around insulator as shown.	
Earth device installation: 1. Embed 3 earthing electrode underground totally (depth over 10cm). 2. Respectively embedded earthing pole	

Warning: Earth wire is a most important factor to make the electric fence run well, inappropriate embedding of the earth wire can affect the function of the fence.

Protection wires installation method

Fix protective wires with insulation porcelain. Fix 2 protective wires with insulation porcelains at a distance from 50-80m as shown.	
2. Connect high voltage wires with protective wires as shown. Twine high voltage wires connection with protective wires tight wrap with plastic tape to prevent leakage as the right shown. Do not let high voltage wires touch ground and water.	

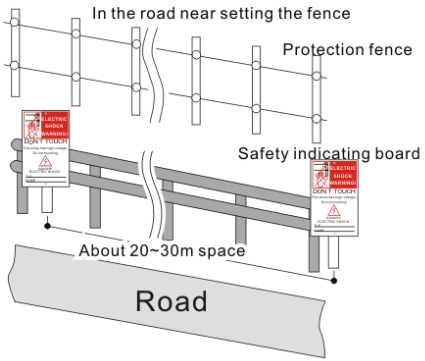
Protective wires maintenance and management. 1. Inspect protective wires termly, prevent them from being touched by obstacles such as grass and trees. 2. Set warning boards around protective wires.	Cut weeds and other bar around the protective wires at intervals, in order to prevent them from touching Protective wires; When in rainy day, misty weather,frost day and moist weather, the wires may have electricity leakage and may not work perfectly. In order to prevent obstacles from touching the electric fence and protective wires, please check them termly; In order to avoid getting an electric shock, please set warning boards around electric fence and replace them when they are damaged.	

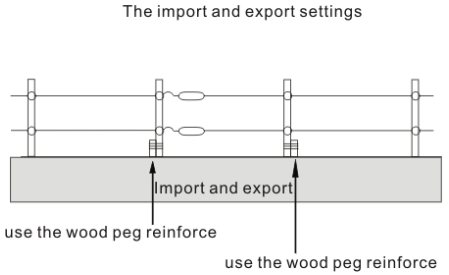
According to the terrain to installs protective wires.

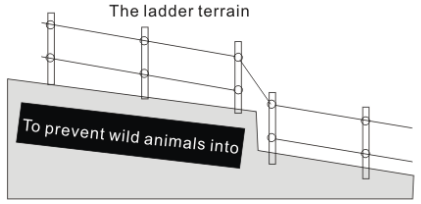
1.If set electric fence in locations such as footway , please set a additional fence around the electric fence , and set up warning boards in 20m on the electric fence.

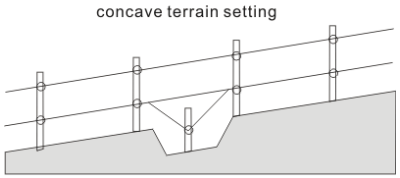
2. Please set handles in the gates.

3. To prevent wild animals invading, please set protective wires properly in undulant ground.



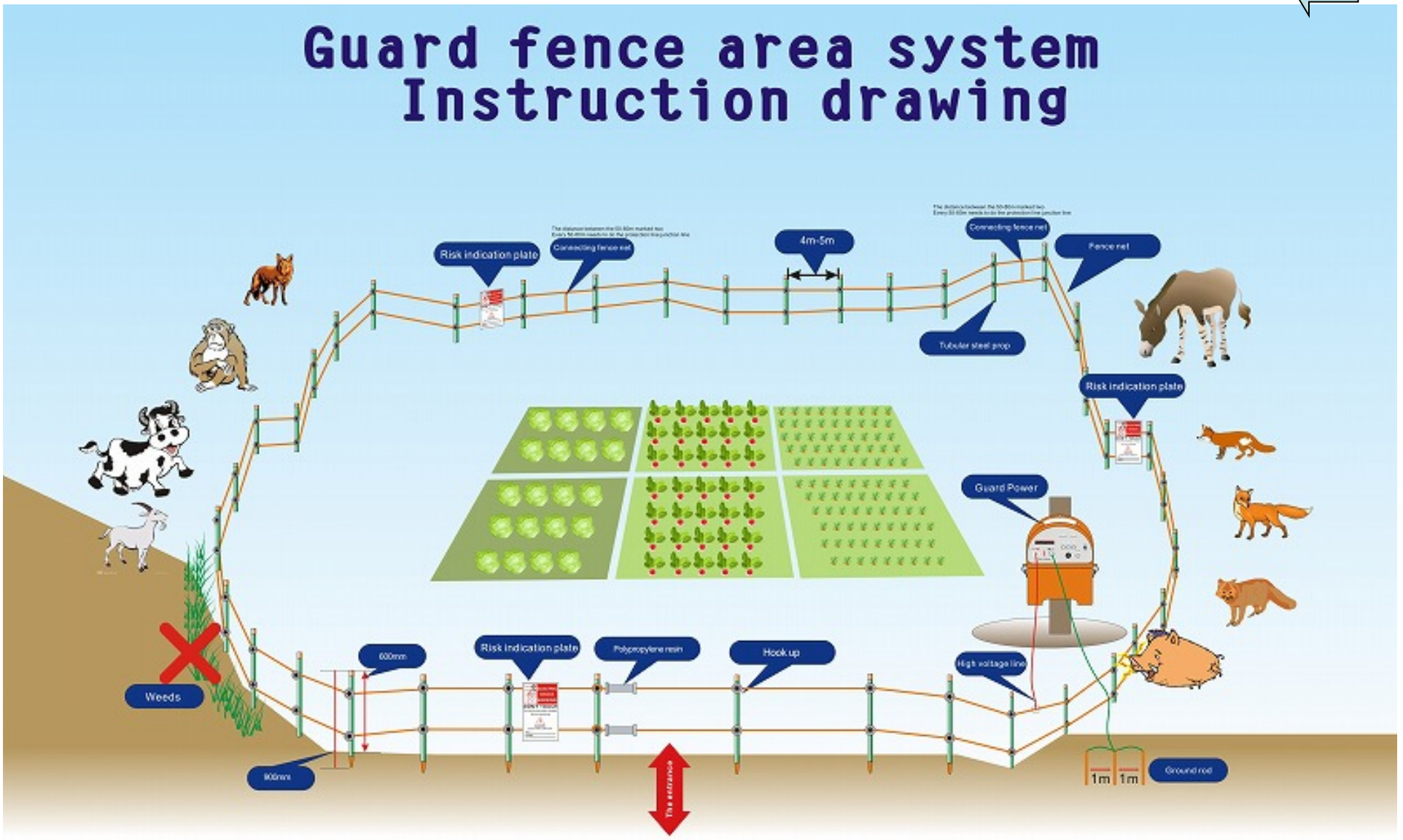






4. The harmful beasts can burrow a hole and come out from the hole in laddery terrain. Therefore please install protective wires as shown.

Guard fence area system
Instruction drawing



Basic Operation

1. The process of starting-up: Turn on the power switch, the night mode indicator light up. Don’t press the power switch until a ticking sound.

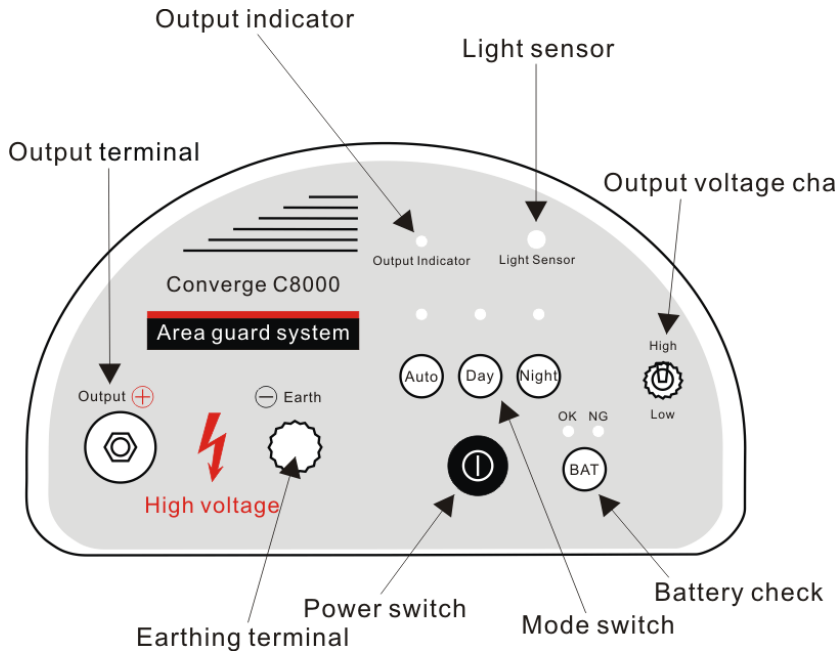
2. Press the button of testing battery, the light【OK】up.

3. Press the working mode switch to choose the desired mode.

● Night mode: the indicator light up only in the dark (the light sensor can perceive environmental ray, control the energizer not running in daytime).

● Auto mode: the output indicator light up at all times.

● Daytime mode: the output indicator light up only in daylight. The light sensor makes the energizer not run at night.



The top of the picture, from left to right: output terminal, output indicator, light sensor, output voltage switch.

Below the picture: earth terminal, power switch, mode switch, battery check.

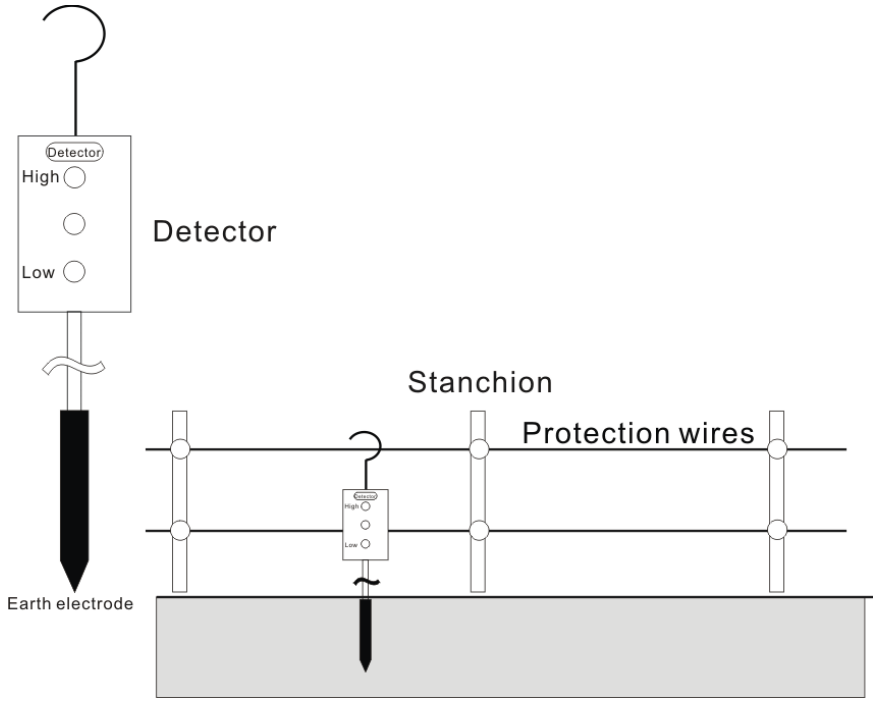
Make sure the high voltage current and earth wire in good order: Use a detector to check the current condition of protective wire and earth wire in 2-3 places away from the energizer.

Usage of the detector:

1. Embed the whole earth rod of the detector underground. Hang the pothook on the protective wire as shown.

2. The three indicators all light up means the protective wire and earth wire are in well condition. If only one indicator light up, then please inspect the protective wire and earth wire.

3. Do the above work before the energizer running.



General fault to deal with

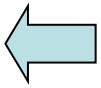
Warning: Don’t disassemble and dismantle the energizer.
Please contact the dealer if you need repair.
Please refer to below conditions if the energizer is out of order.

condition	causation
Output indicator light up, but protective wires are not energized.	Make sure the high voltage wires of output port connect with protective wires well and earth wires condition.

Press power switch, nighttime mode indicator light off.	Make sure you have place the positive and negative pole of the batteries in a correct way. May be the batteries been used up, please replace them with new batteries.
Nighttime mode indicator light up, Output indicator light don’t light up	Not at night, the energizer can not work. Make sure whether there is light shine to the control panel. If so, please adjust position of light sensor to avoid the light. Please avoid direct sunlight to light sensor in daytime operation.
Still return to night mode when choose daytime mode or auto mode	Make sure whether the high voltage wires connect well. Make sure protective wires with insulation porcelain connect well and the joints of protective wires also connect well. Make sure the grass and trees do not contact protective wires. Make sure earth wires embedded underground well, do not embedded in sand and other dry area.

Press the testing battery button, and no response.	Make sure you have place the positive and negative pole of the batteries in a correct way. May be the batteries been used up, please replace them with new batteries.
The energizer is soaked by water or get hit by lightning.	Inspect the energizer, and contact the seller.

Energizer Guarantee



Name				
Model	C8000		Y M D	limited warranty period 3 years
Customer information	Address			
	Name			
	Telephone No.			
Franchiser information	Address			
	Shop Name			
	Telephone No.			

Earthing pole, high voltage connection, warning boards are out of guarantee

The consumer shall have no coverage or benefits under this limited warranty if any of the following conditions are applicable.

1. The failure and damage caused by inappropriate operation and dismantlement.
2. The damage caused by collision and transport after purchase.
3. The operation failure caused by fire, flood, thunder and other natural disaster and abnormal voltage.
4. Have no warranty card.
5. No purchase date, name of customer and franchiser, or altering information on the warranty card.
6. Damage caused out of your country.
7. The guarantee only works in customer’s country.
8. This warranty card is the proof for us to provide free reparation under limited time and conditions.

The customer information on this card is only used for repairing and replacing the energizer, no other purpose.

If the following cases occurs, please pay all repairment expense yourself, even in warranty period.

1. The failure caused by inappropriate operation or disassembly.
2. The damage caused by dropping down or transport after sale.
3. The failure and damage caused by fire, earthquake, flood, thunder and lightning or other natural disaster, and abnormal voltage.
4. The failure and damage caused by using it for other purpose.
5. Excluded repairment.
6. No purchase date, name of customer and agency, or altering information on the warranty card.
7. Damage caused not in your own country.